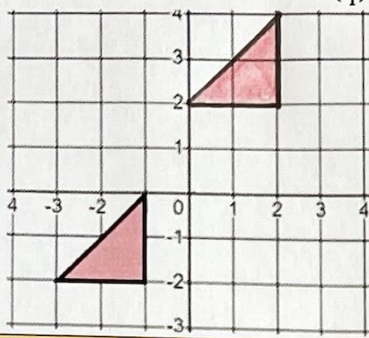
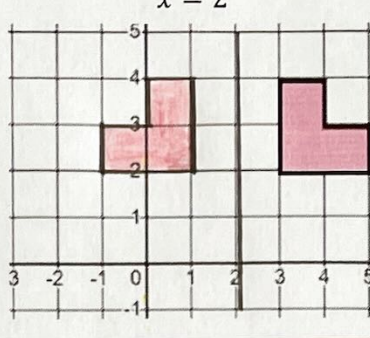
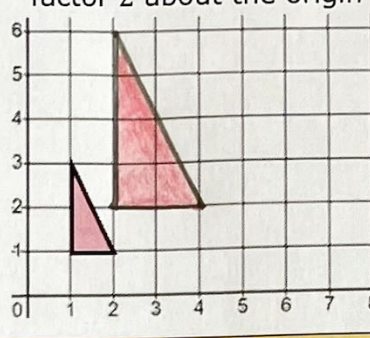
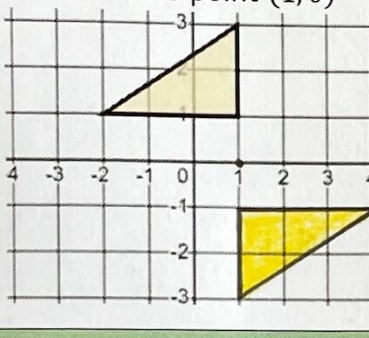
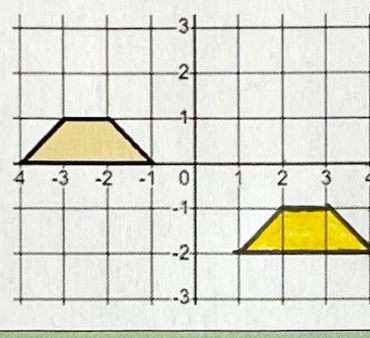
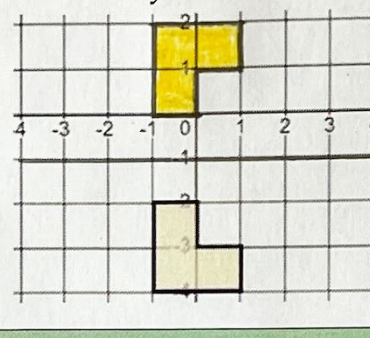
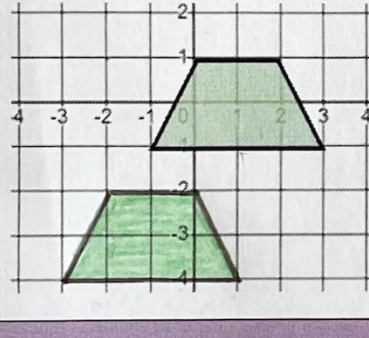
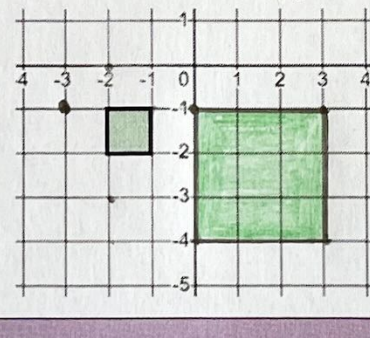
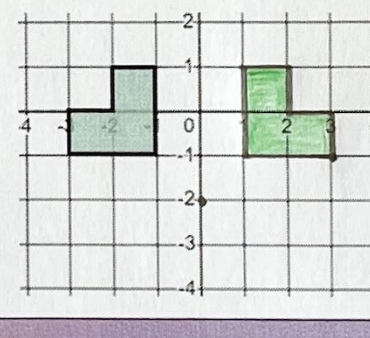
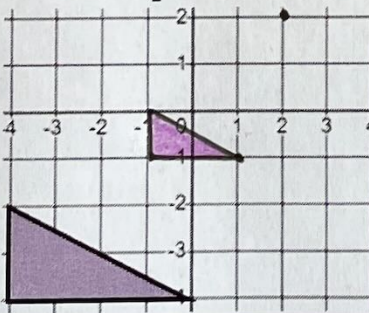
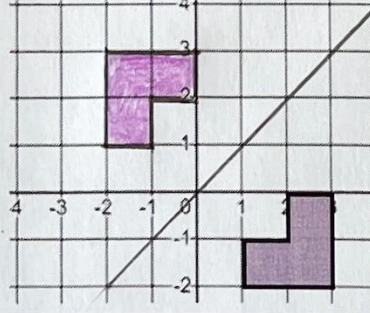


## Transforming Shapes

<p><b>(a)</b></p> <p>Translate the shape by <math>\begin{pmatrix} 3 \\ 4 \end{pmatrix}</math></p> 	<p><b>(b)</b></p> <p>Reflect the shape in the line <math>x = 2</math></p> 	<p><b>(c)</b></p> <p>Enlarge the shape by scale factor 2 about the origin</p> 
<p><b>(d)</b></p> <p>Rotate the shape by <math>180^\circ</math> about the point <math>(1, 0)</math></p> 	<p><b>(e)</b></p> <p>Translate the shape by <math>\begin{pmatrix} 5 \\ -2 \end{pmatrix}</math></p> 	<p><b>(f)</b></p> <p>Reflect the shape in the line <math>y = -1</math></p> 
<p><b>(g)</b></p> <p>Translate the shape by <math>\begin{pmatrix} -2 \\ -3 \end{pmatrix}</math></p> 	<p><b>(h)</b></p> <p>Enlarge the shape by scale factor 3 about <math>(-3, -1)</math></p> 	<p><b>(i)</b></p> <p>Rotate the shape <math>90^\circ</math> clockwise about <math>(0, -2)</math></p> 
<p><b>(j)</b></p> <p>Enlarge the shape by scale factor <math>\frac{1}{2}</math> about <math>(2, 2)</math></p> 	<p><b>(k)</b></p> <p>Reflect the shape in the line <math>y = x</math></p> 	<p><b>(l)</b></p> <p>Rotate the shape <math>90^\circ</math> anti-clockwise about <math>(-1, 0)</math></p> 